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 1 [Wireless LAN: IQU: practical queue-based user association management for WLANs](#)


Amit P. Jardosh, Kimaya Mittal, Krishna N. Ramachandran, Elizabeth M. Belding, Kevin C. Almeroth

 September 2006 **Proceedings of the 12th annual international conference on Mobile computing and networking MobiCom '06**

Publisher: ACM Press

Full text available: pdf(1.04 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Flash crowds and high concentrations of users in wireless LANs (WLANs) cause significant interference problems and unsustainable load at access points. This leads to poor connectivity for users, severe performance degradation, and possible WLAN collapse. To validate this claim, we present two case studies of large, heavily loaded operational WLANs. These studies provide significant insight into the degraded performance and collapse of a WLAN during heavy use. To address these problems, we propos ...

Keywords: IEEE 802.11, association management, congestion, wireless networks

 2 [Best poster papers from MobiHoc 2002: Virtual operator based AAA in wireless LAN hot spots with ad-hoc networking support](#)


Junbiao Zhang, Jun Li, Stephen Weinstein, Nan Tu

 June 2002 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 6 Issue 3

Publisher: ACM Press

Full text available: pdf(180.11 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Sound and effective authentication, authorization and accounting (AAA) schemes for convenient and secure mobile wireless accesses are of great importance given the increased popularity and business opportunities in public wireless LAN hot spots. One possible scheme, which uses the mobile users' service providers as the single point of contact for all AAA transactions, is emerging as a very promising solution. We refer to such service providers as "virtual operators". In this paper, we discuss va ...

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Published before January 2002

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1 [Building efficient wireless sensor networks with low-level naming](#)



John Heidemann, Fabio Silva, Chalermek Intanagonwiwat, Ramesh Govindan, Deborah Estrin, Deepak Ganesan

 October 2001 **ACM SIGOPS Operating Systems Review , Proceedings of the eighteenth ACM symposium on Operating systems principles SOSP '01**, Volume 35 Issue 5

Publisher: ACM Press

Full text available: pdf(1.54 MB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In most distributed systems, naming of nodes for low-level communication leverages topological location (such as node addresses) and is independent of any application. In this paper, we investigate an emerging class of distributed systems where low-level communication does not rely on network topological location. Rather, low-level communication is based on attributes that are *external* to the network topology and *relevant* to the application. When combined with dense deployment of n ...

2 [The use of connectionless network layer protocols over FDDI networks](#)



Dave Katz

 July 1990 **ACM SIGCOMM Computer Communication Review**, Volume 20 Issue 3

Publisher: ACM Press

Full text available: pdf(1.15 MB)

 Additional Information: [full citation](#), [abstract](#), [index terms](#)

Methods for running the DoD IP and OSI connectionless network layer protocols over the FDDI medium are presented. Issues specific to the interaction between network layer protocols and FDDI are discussed, and some possible approaches to problems encountered are evaluated. The OSI protocol suite is examined in particular detail. This work was supported in part by National Science Foundation agreement no. NCR 8720904.

3 [Windows NT software design and implementation for a wireless LAN base station](#)



Marko Hännikäinen, Timo Vanhatupa, Jussi Lemiläinen, Timo Hämäläinen, Jouka Saarinen

 August 1999 **Proceedings of the 2nd ACM international workshop on Wireless mobile multimedia WOWMOM '99**
Publisher: ACM Press

Full text available: pdf(1.20 MB)

 Additional Information: [full citation](#), [references](#), [index terms](#)
Keywords: Windows NT, demonstrator platform, wireless LAN

4 Poster abstracts: Distributed assignment of encoded MAC addresses in sensor networks



Curt Schurgers, Gautam Kulkarni, Mani B. Srivastava

October 2001 **Proceedings of the 2nd ACM international symposium on Mobile ad hoc networking & computing MobiHoc '01**

Publisher: ACM Press

Full text available: [pdf\(459.36 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In wireless sensor networks, the vast majority of wide-scale traffic consists of only a few bytes, including all network and application layer IDs. Therefore, MAC addresses, which are vital in a shared medium, present major overhead, particularly because they are traditionally chosen network-wide unique. To tackle this overhead, we propose a dynamic MAC addressing scheme based on a distributed algorithm. The assigned addresses are reused spatially and represented by variable length codewords. Ou ...

Keywords: MAC address, distributed, sensor networks

5 A scalable wireless virtual LAN



Zhao Liu, Malathi Veeraraghavan, Kai Y. Eng

September 1998 **Mobile Networks and Applications**, Volume 3 Issue 3

Publisher: Kluwer Academic Publishers

Full text available: [pdf\(300.90 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper presents a Wireless Virtual Local Area Network (WVLAN) to support mobility in IP-over-ATM local area networks. Mobility is handled by a joint ATM-layer handoff for connection rerouting and MAC-layer handoff for location tracking, such that the effects of mobility are localized and transparent to the higher-layer protocols. Different functions, such as Address Resolution Protocol (ARP), mobile location, and ATM connection admission are combined to reduce protocol overhead and from ...

6 A scalable wireless virtual LAN



Zhao Liu, Malathi Veeraraghavan, Kai Y. Eng

November 1996 **Proceedings of the 2nd annual international conference on Mobile computing and networking MobiCom '96**

Publisher: ACM Press

Full text available: [pdf\(1.25 MB\)](#)

Additional Information: [full citation](#), [references](#), [index terms](#)

7 What TCP/IP protocol headers can tell us about the web



F. Donelson Smith, Félix Hernández Campos, Kevin Jeffay, David Ott

June 2001 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 2001 ACM SIGMETRICS international conference on Measurement and modeling of computer systems SIGMETRICS '01**, Volume 29 Issue 1

Publisher: ACM Press

Full text available: [pdf\(1.55 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

We report the results of a large-scale empirical study of web traffic. Our study is based on over 500 GB of TCP/IP protocol-header traces collected in 1999 and 2000 (approximately one year apart) from the high-speed link connecting The University of North Carolina at Chapel Hill to its Internet service provider. We also use a set of smaller traces from the NLNR repository taken at approximately the same times for comparison. The principal results from this study are: (1) empirical data suitable ...


8 Remote Linux explained



Richard Ferri

January 2002 **Linux Journal**, Volume 2002 Issue 93

Publisher: Specialized Systems Consultants, Inc.

Full text available:  [html\(25.94 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Learn to take advantage of the benefits of remote booting.

9 Papers: A novel approach to mobility management



Ron Hutchins, Tracy Camp, Philip H. Enslow

January 1999 **ACM SIGCOMM Computer Communication Review**, Volume 29 Issue 1

Publisher: ACM Press

Full text available:  [pdf\(1.11 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

In this paper, we propose a novel approach to computer mobility. Our approach allows mobility to be rapidly deployed, as the networking infrastructure required for deployment is available off the shelf. Furthermore, a mobile node does not require modifications in order to use these mobile services. While our approach provides rapid deployment and supports both IP and non-IP protocols, only a subset of mobile usage scenarios are offered. In other words, our approach does not solve all the problem ...

10 Papers: Automatic VLAN creation based on on-line measurement



Sean Rooney, Christian Hörtnagl, Jens Krause

July 1999 **ACM SIGCOMM Computer Communication Review**, Volume 29 Issue 3

Publisher: ACM Press

Full text available:  [pdf\(806.29 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

Virtual LANs (VLANs) permit hosts connected to a LAN switch to be grouped together into logical groups as a function of some management policy rather than simply of their physical location. Commercial LAN switches support a variety of policies based on either physical or logical addresses, protocol types, tagged frames, or user defined rules. The objective of these policies is the same: to reduce the amount of traffic that needs to be routed by grouping together hosts which are likely to communi ...


11 Using policies for effective network management



Michele J. Wright

March 1999 **International Journal of Network Management**, Volume 9 Issue 2

Publisher: John Wiley & Sons, Inc.

Full text available:  [pdf\(469.84 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

The goal of policy-based management is to reduce the complex administration of networks. Copyright © 1999 John Wiley & Sons, Ltd.

12 Technical Session: Track-it!: help desk automation



John V. Roberts

October 2001 **Proceedings of the 29th annual ACM SIGUCCS conference on User services SIGUCCS '01**

Publisher: ACM Press

Full text available:  [pdf\(194.18 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

While we are not fully utilizing all of the functions of Track-It!, we have found the ones we are using to have a great benefit for our organization. The auditing feature itself is almost worth the cost. This feature can automatically populate your inventory with any machine authenticating against your LAN, trapping critical information, such as IP Addresses and MAC addresses in the database. The Help Desk function has enabled us to keep online records of repairs and problems by description and ...

Keywords: automation, help desk, inventory, software, track-it!, work order

13 Migration Issues and Strategies for Token Ring



Bengt Beyer-Ebbesen, Mark Cowtan, Sharam Hakimi, Robert D. Love

July 1997 **International Journal of Network Management**, Volume 7 Issue 4

Publisher: John Wiley & Sons, Inc.

Full text available:  pdf(472.60 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

This article considers the problems caused by ever increasing traffic on Token Ring LANs. It shows how the new IEEE 802.5 standard for DTR addresses this problem, outlining scenarios and providing a migration strategy for evolving networks, using this new standard. © 1997 John Wiley & Sons, Ltd.

14 [Using Linux to solve the problem of mixed operating system LAN services](#)



Daniel W. Drake

November 1997 **Proceedings of the 25th annual ACM SIGUCCS conference on User services: are you ready? SIGUCCS '97**

Publisher: ACM Press

Full text available:  pdf(840.40 KB) Additional Information: [full citation](#), [index terms](#)

15 [Analysis of a local-area wireless network](#)



Diane Tang, Mary Baker

August 2000 **Proceedings of the 6th annual international conference on Mobile computing and networking MobiCom '00**

Publisher: ACM Press

Full text available:  pdf(1.36 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

To understand better how users take advantage of wireless networks, we examine a twelve-week trace of a building-wide local-area wireless network. We analyze the network for overall user behavior (when and how intensively people use the network and how much they move around), overall network traffic and load characteristics (observed throughput and symmetry of incoming and outgoing traffic), and traffic characteristics from a user point of view (observed mix of applications and number of ho ...

Keywords: local-area wireless networks, network analysis

16 [Teaching computer networks through modeling](#)



Noël Davis, Scot Ransbottom, Drew Hamilton

September 1998 **ACM SIGAda Ada Letters**, Volume XVIII Issue 5

Publisher: ACM Press

Full text available:  pdf(369.39 KB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

Modern computer scientists need to understand both the theoretical and practical aspects of computer networking. As computer science teaching methods continue to mature, experiences in mixing theory and application have been shared in the community [Marti 96]. While the literature is rich with experiences in applied or project based courses in artificial intelligence, architecture, software engineering, data structures and algorithms, few have addressed the challenge of coordinating theory and p ...

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